

## Claims

1. A filter sector (1) for use in rotary disc filters for separating suspensions, the filter sector comprising a first  
5 filtration wall (2) of a substantially rigid net, and a second  
filtration wall (3) of a substantially rigid net opposite the  
first filtration wall, a filtrate chamber (4) being formed  
between the first and second filtration walls for receiving  
filtrate that has flowed through the first and second  
10 filtration walls, wherein the filtrations walls are profiled  
to increase the filtration capacity of the filter sector,  
**characterised** in that each filtration wall (2,3) is profiled  
to form a multiplicity of cavities (5) and humps (6), and that  
each cavity and hump, respectively, includes a multiplicity of  
15 meshes of the net.
2. A filter sector according to claim 1, wherein the cavities  
(5) and humps (6), respectively, are oriented in rows with the  
rows of cavities alternating with the rows of humps.  
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3. A filter sector according to claim 1 or 2, wherein the  
cavities (5) and humps (6) are formed by weaving the net.
4. A filter sector according to claim 1 or 2, wherein the  
25 cavities (5) and humps (6) are formed by pressing.
5. A filter sector according to any one of claims 1 - 4,  
wherein each cavity (5) and hump (6), respectively, is defined  
by four straight sides.  
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6. A filter sector according to claim 5, wherein each straight  
side of a cavity (5) is common to one of the four straight  
sides of an adjacent hump (6).

7. A filter sector according to any one of claims 1-6, wherein the first and second filtration walls (2,3) of the net take the shape of a bag.

5 8. A filter sector according to any one of claims 1-6, further comprising first and second support walls (8,9) made of a planar metal net that is coarser than the net of the filtration walls (2,3), wherein the first and second support walls support the first and second filtration walls,  
10 respectively.

9. A filter sector according to claim 8, wherein the support walls (8,9) are joined to each other at the radial sides of the filter sector, whereby the filtration walls (2,3) and  
15 support walls (8,9) form a bag-shaped filter unit (10).

10. A filter sector according to any one of claims 1-9, wherein the net of the filtration walls (2,3) comprises a metal net.